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FIG. 1

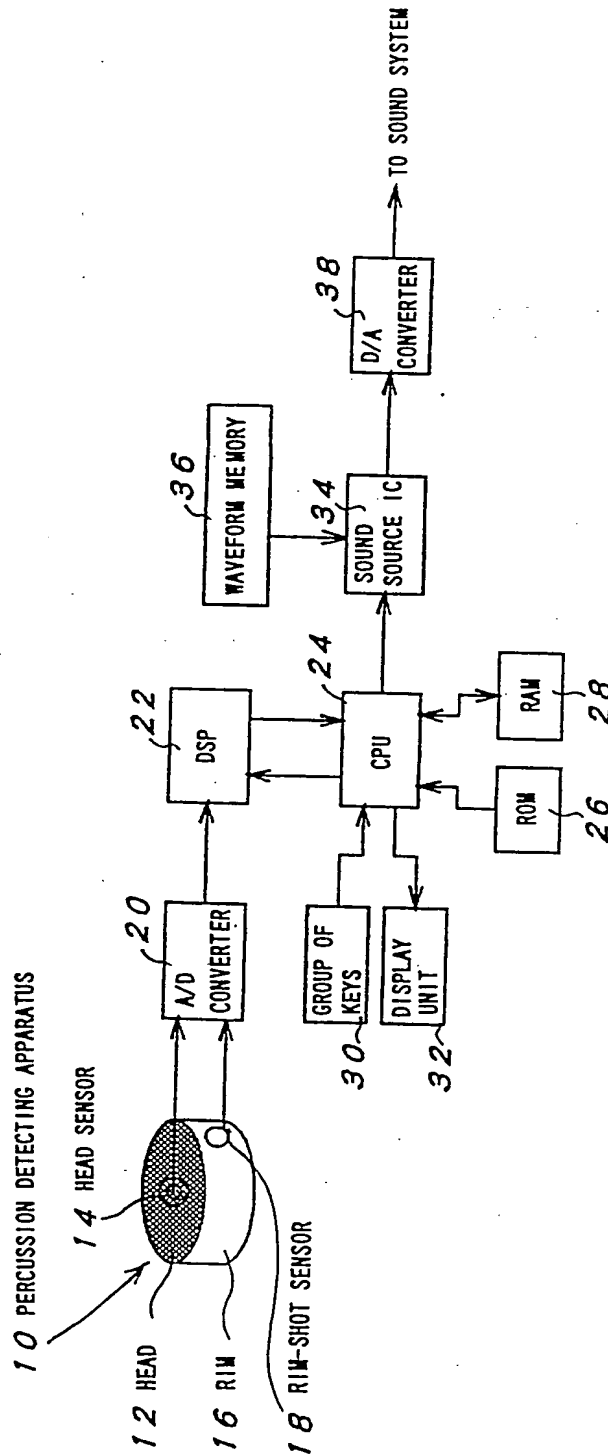
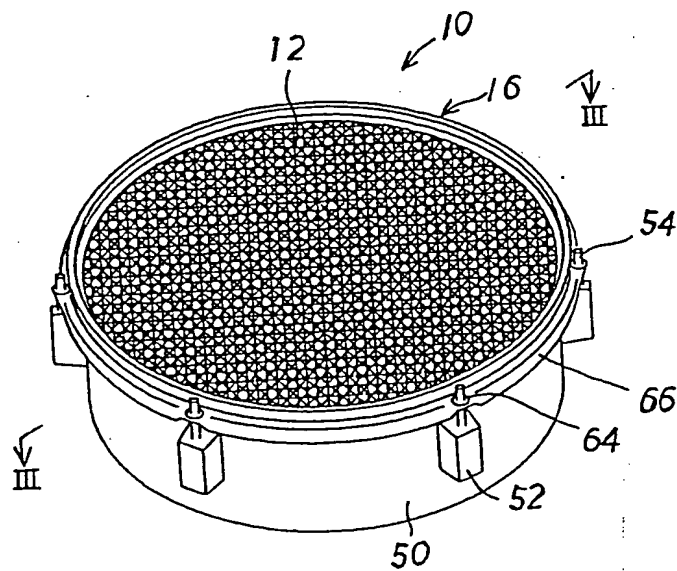


FIG. 2



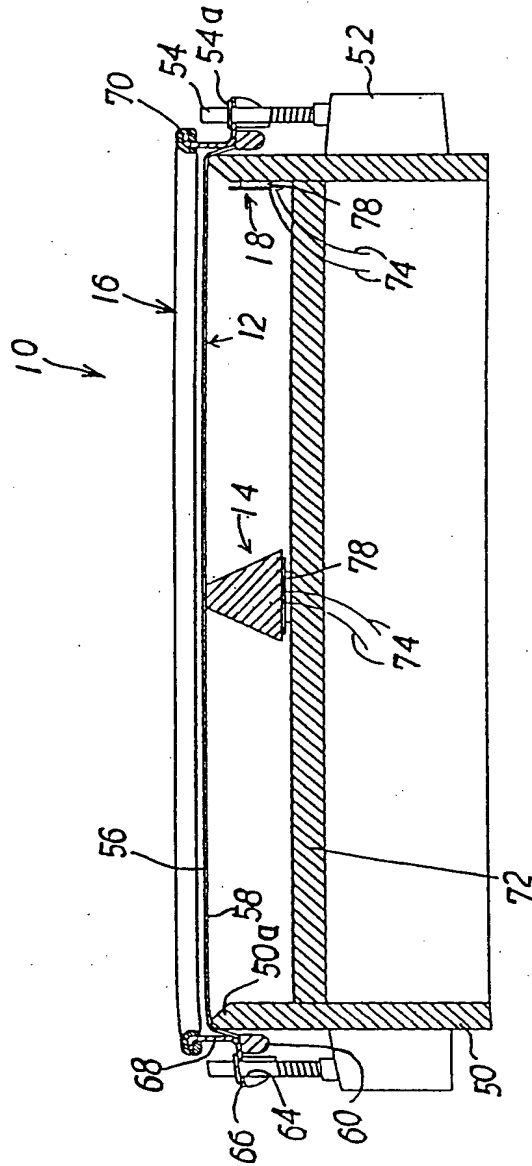


FIG. 4

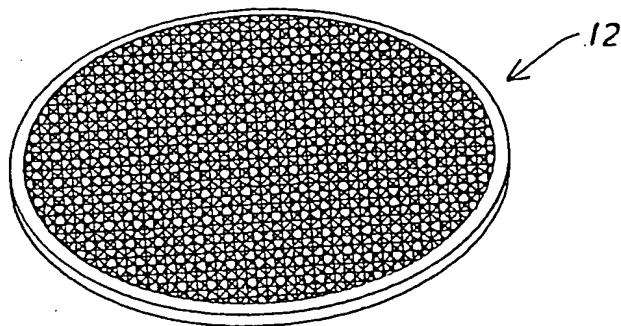


FIG. 5

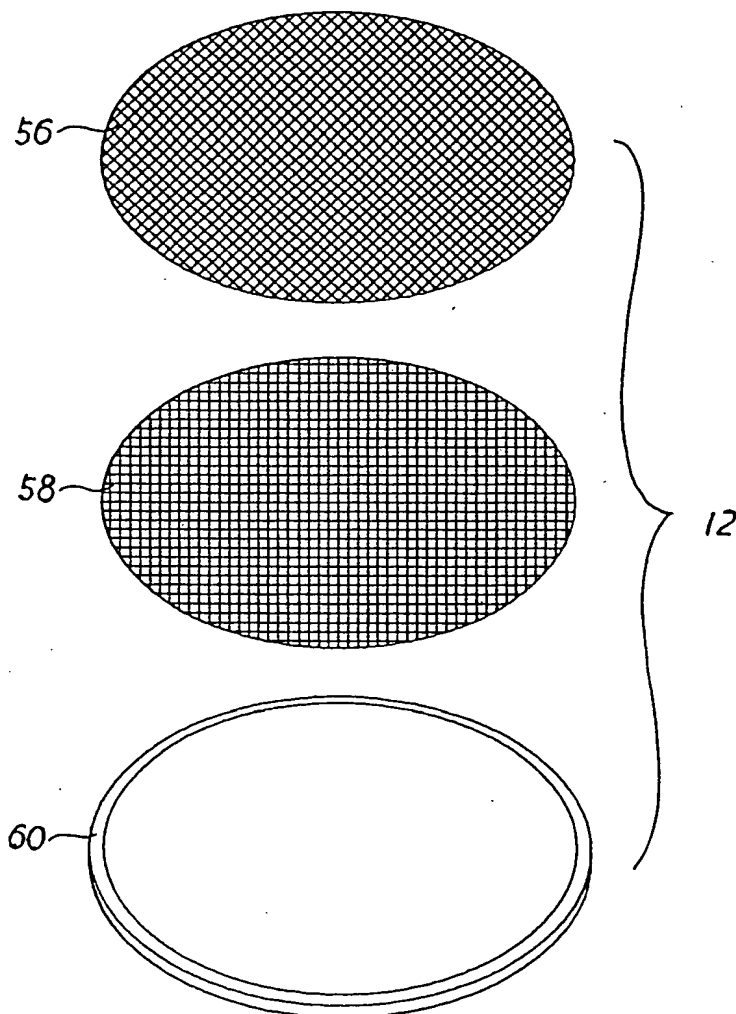


FIG. 6

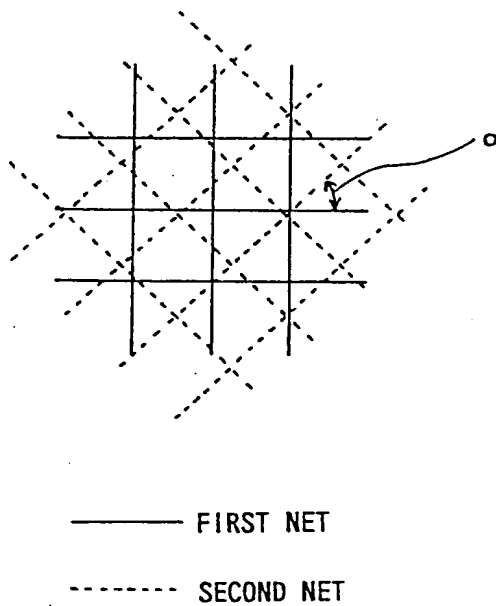


FIG. 7 (a)

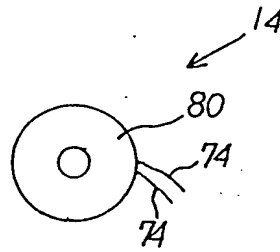


FIG. 7 (b)

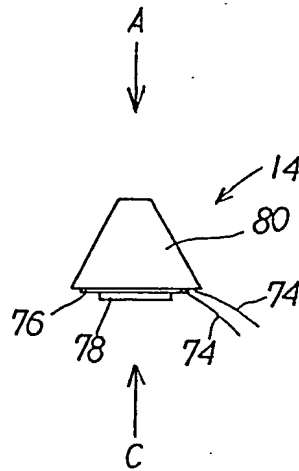


FIG. 7 (c)

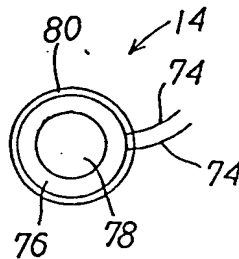


FIG. 8

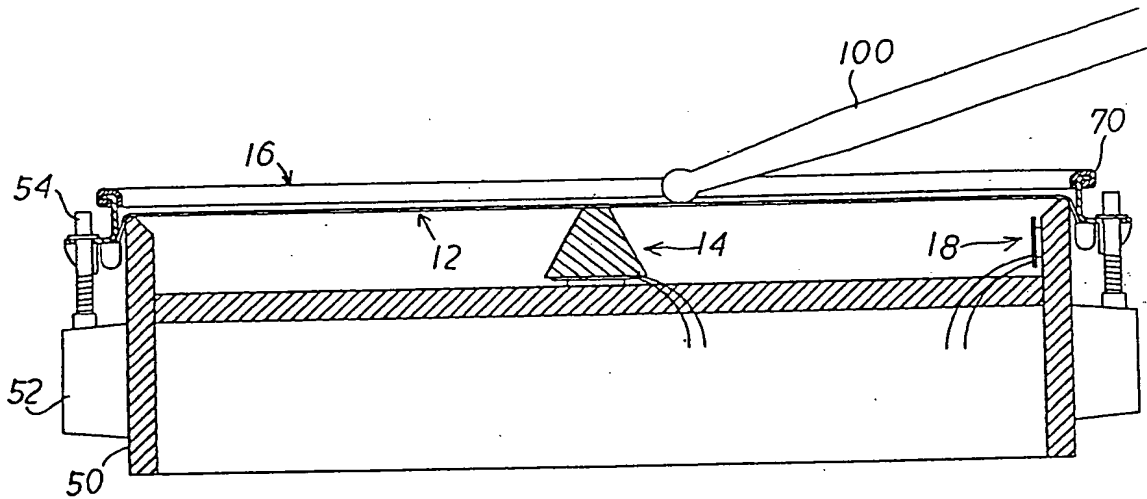


FIG. 9

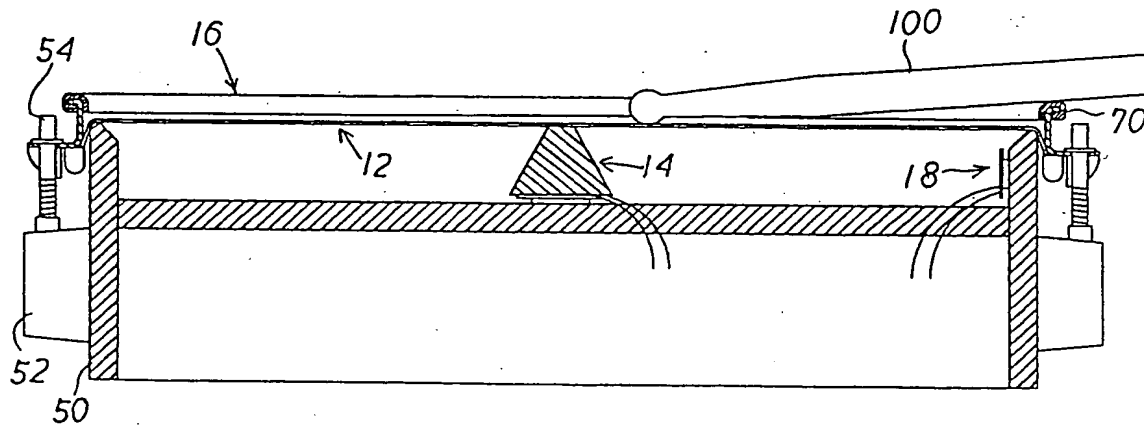


FIG. 10

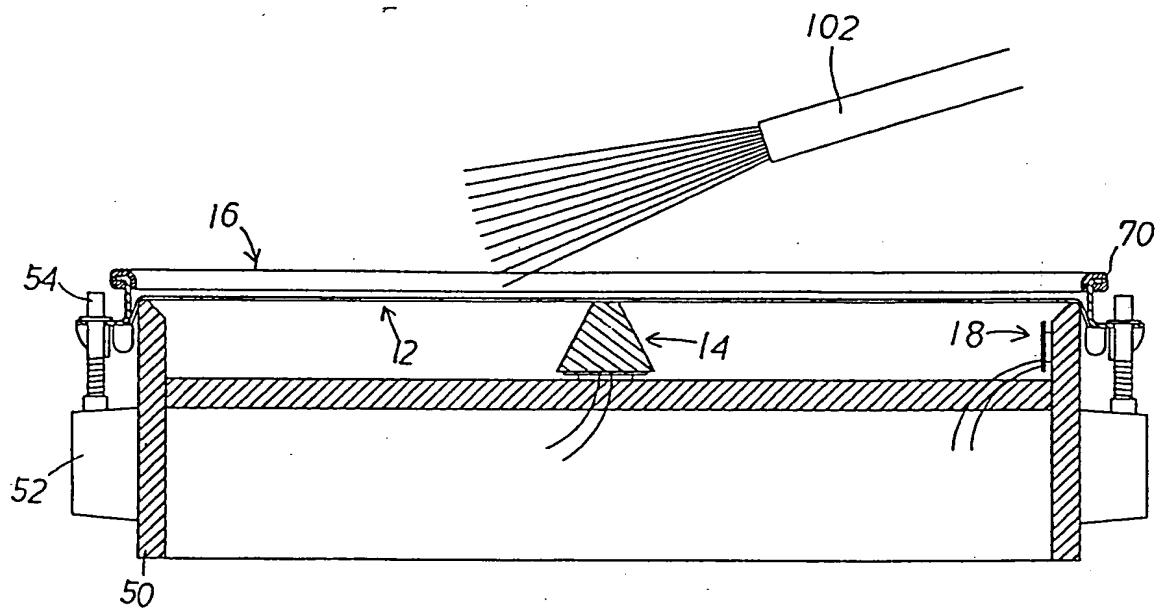


FIG. 11

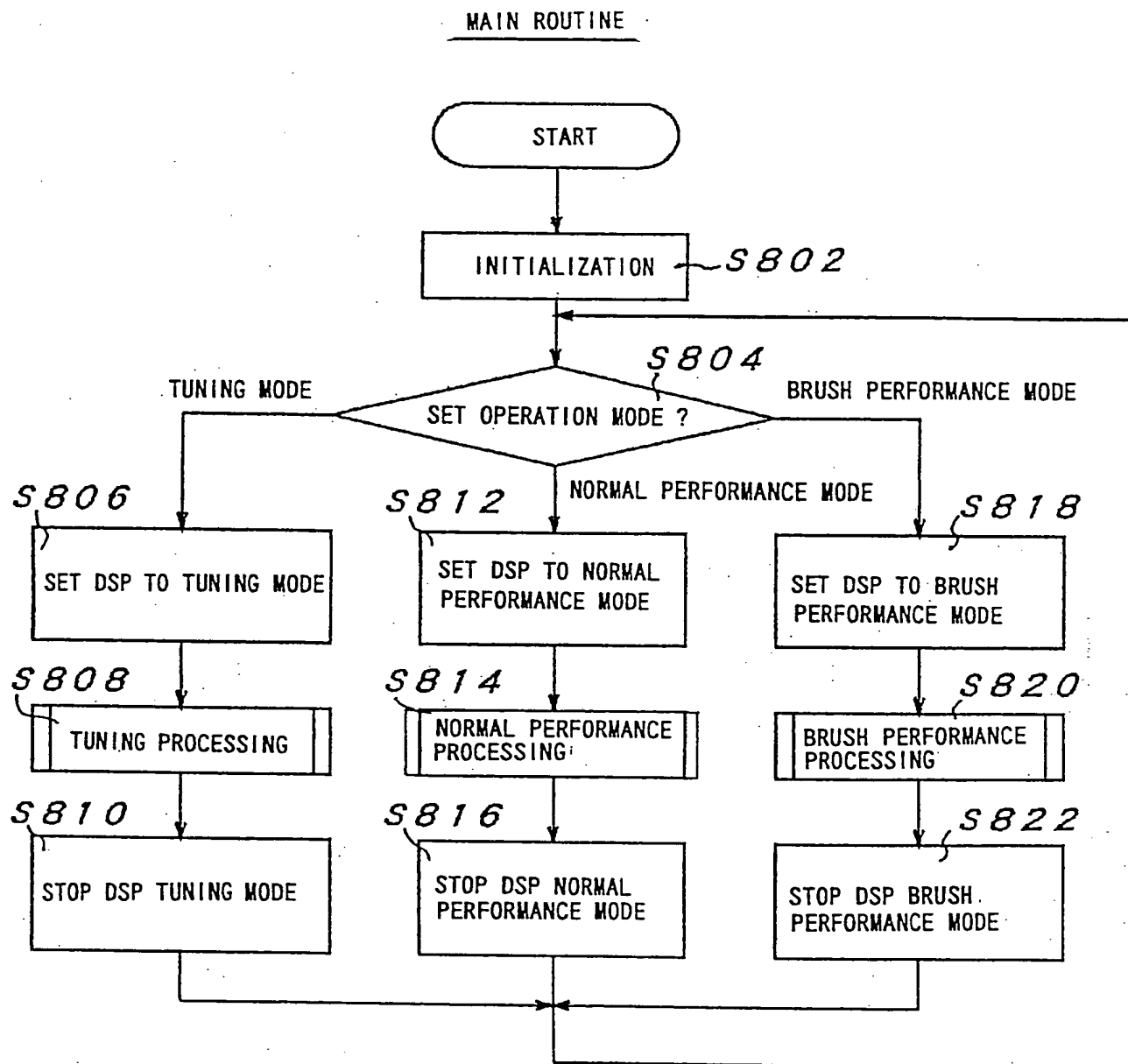


FIG. 12

DSP PERCUSSION SIGNAL PROCESSING ROUTINE

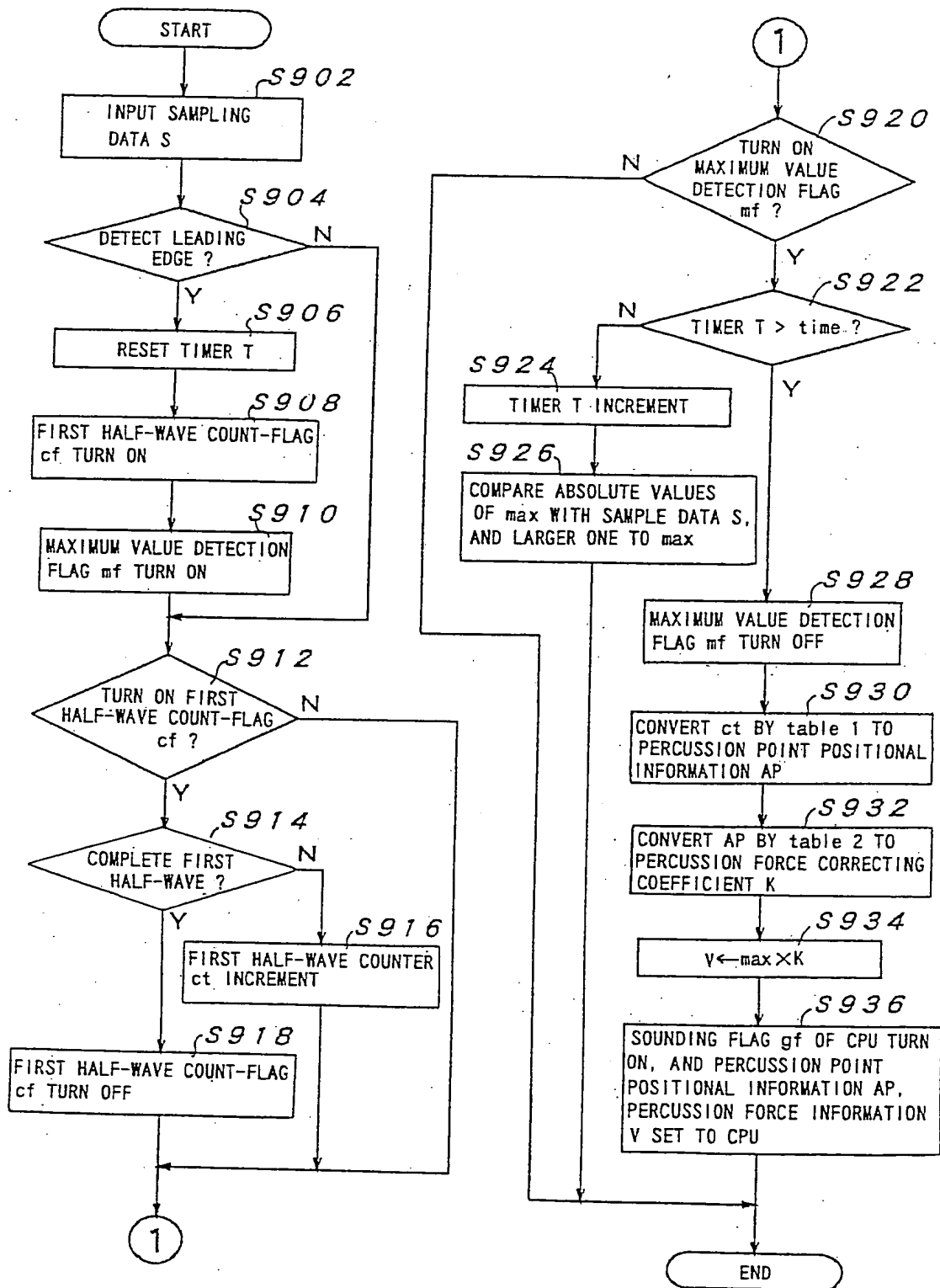


FIG. 13 (b)

(b) OUTPUT WAVEFORM OF HEAD SENSOR.

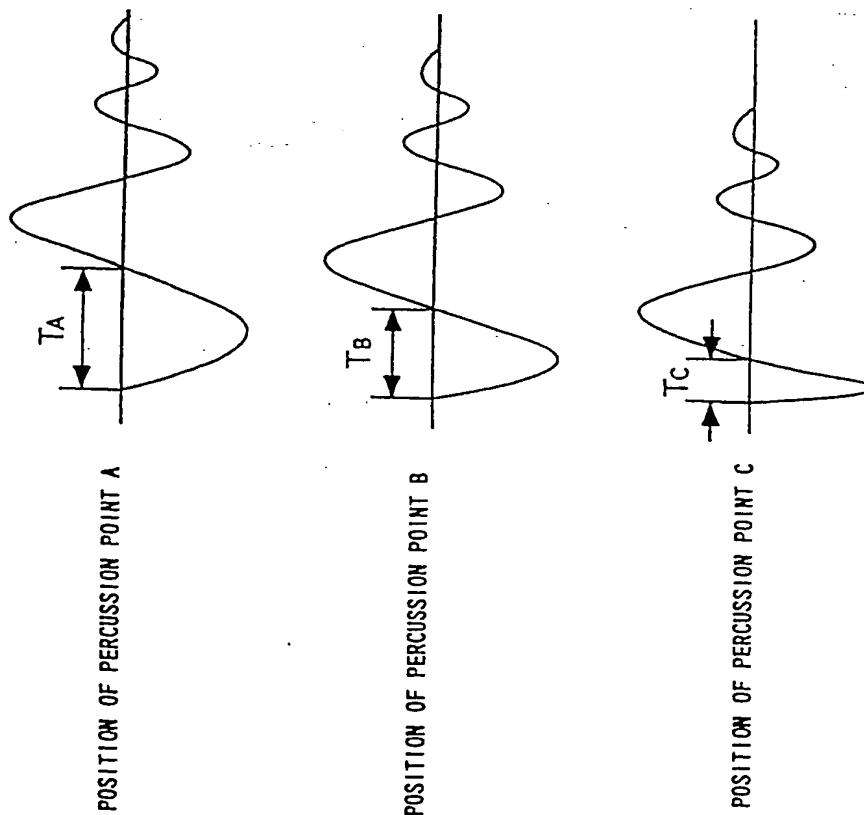
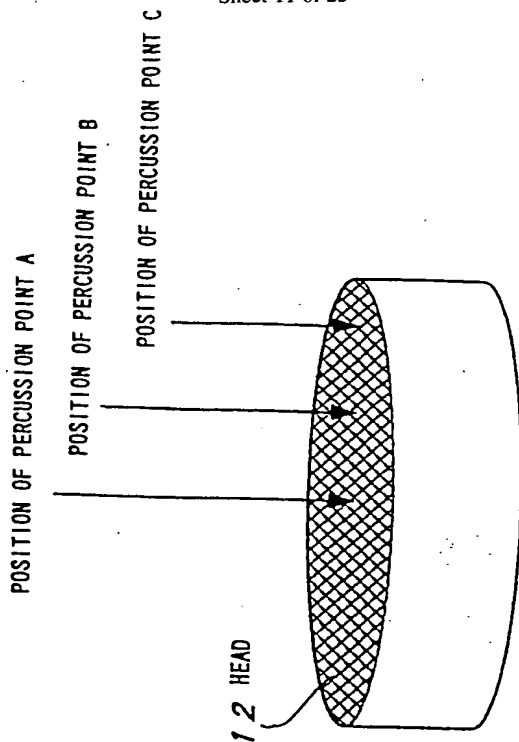


FIG. 13 (a)

(a) POSITION OF PERCUSSION POINT



PERIOD OF TIME FOR FIRST HALF-WAVE VARIES
DEPENDING ON POSITION OF PERCUSSION POINT

FIG. 14

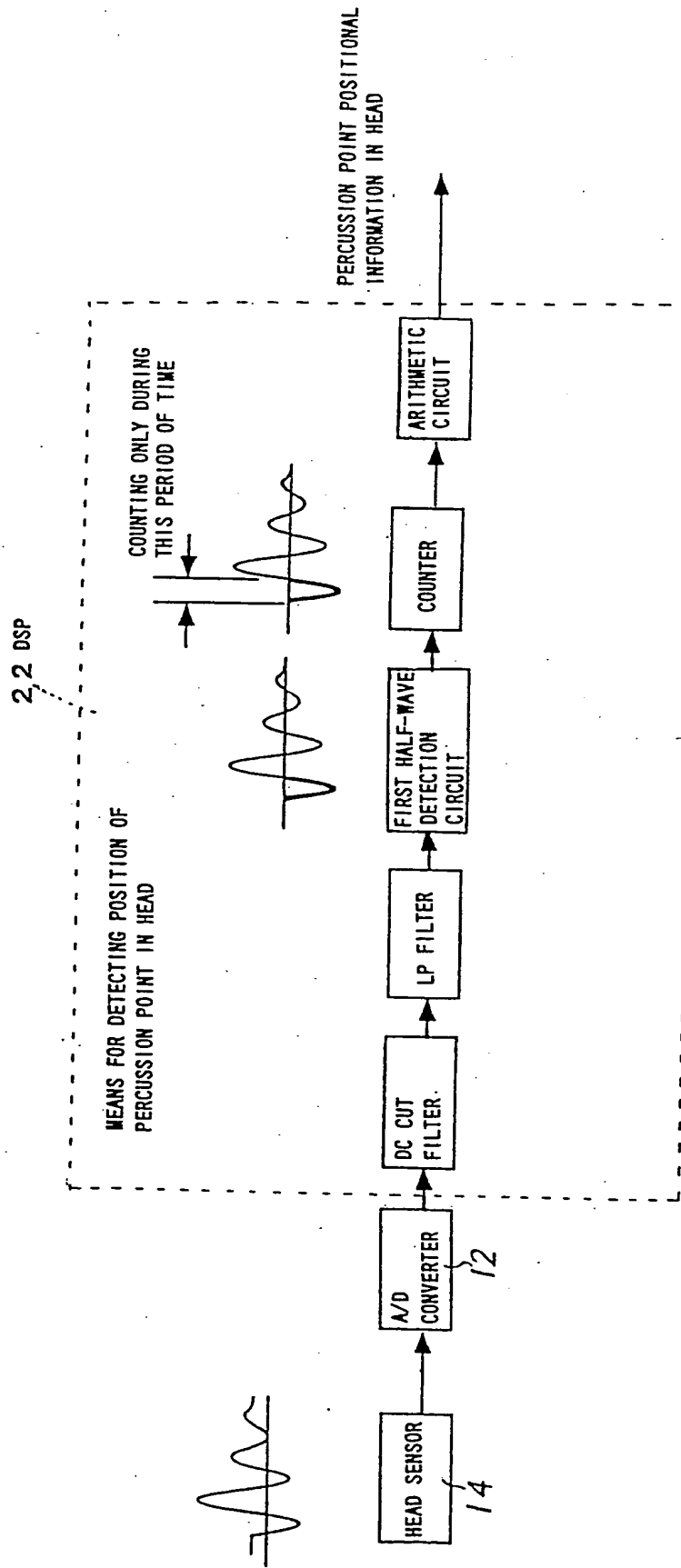


FIG. 15

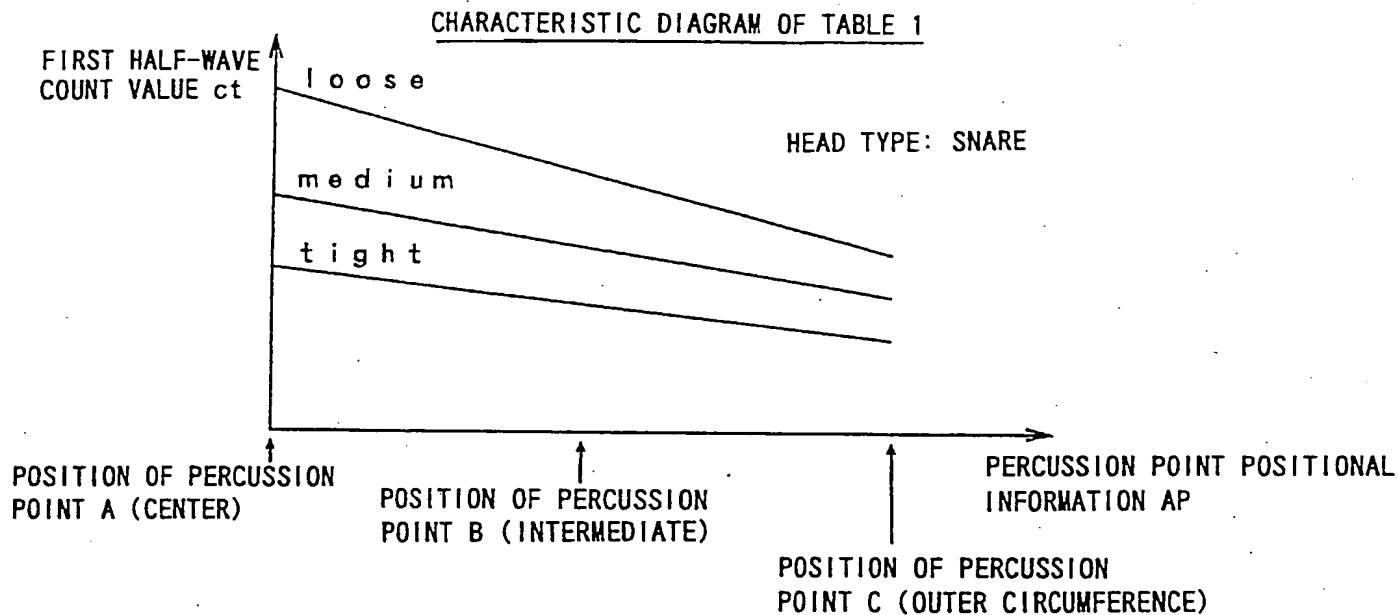


FIG. 16

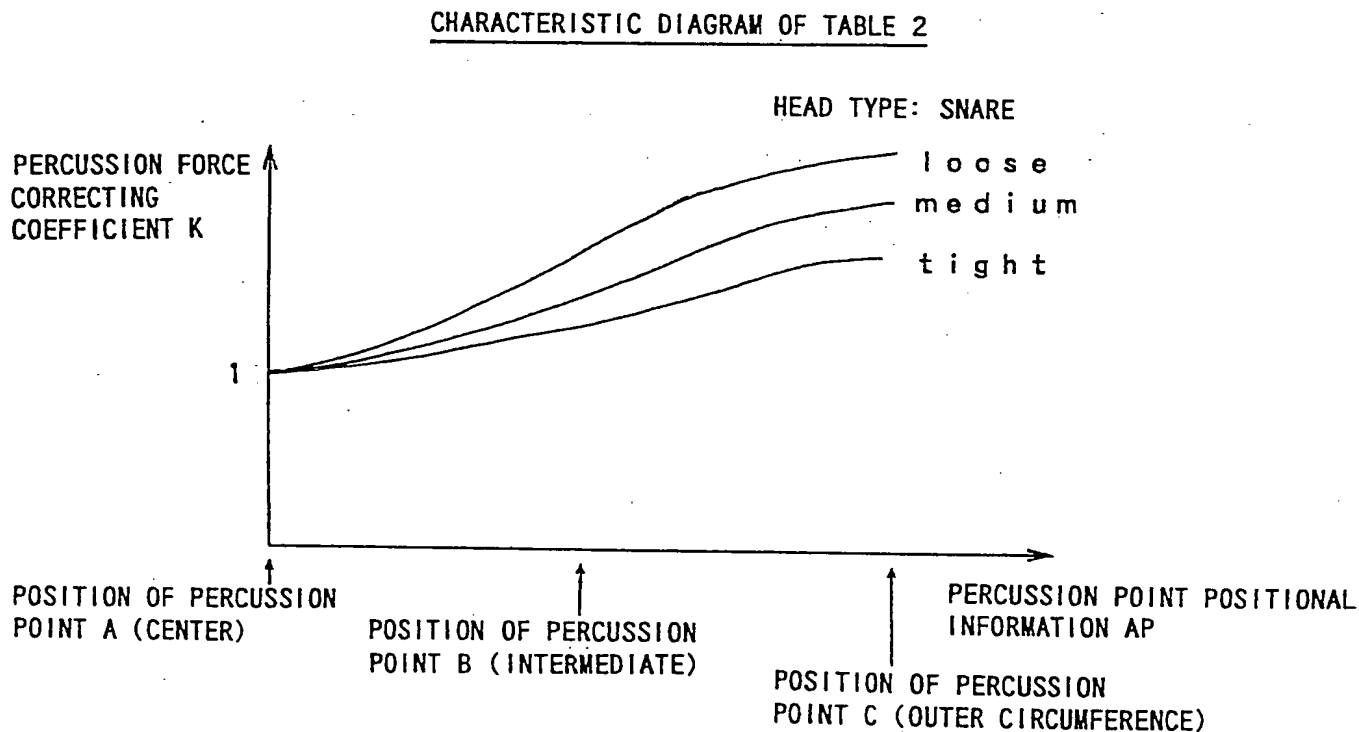


FIG. 17

TUNING PROCESSING ROUTINE

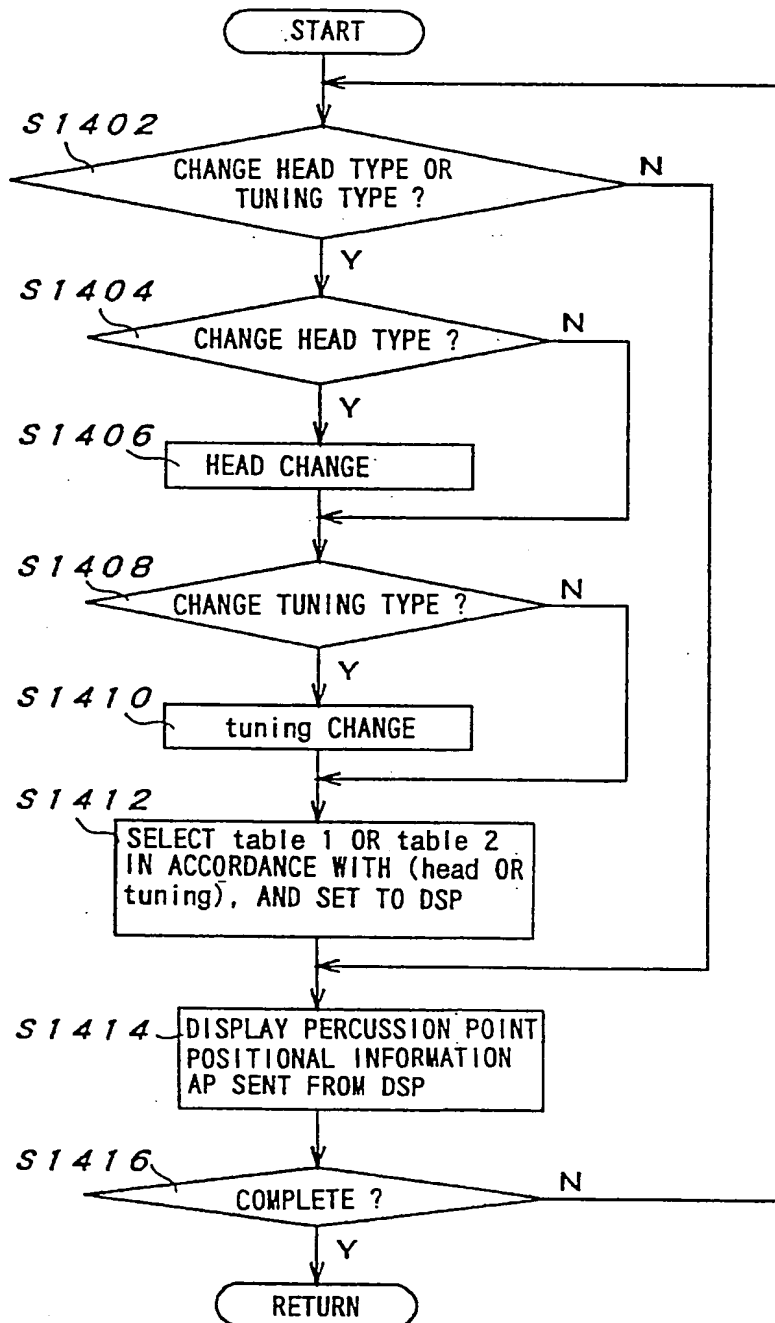


FIG. 18 (a)

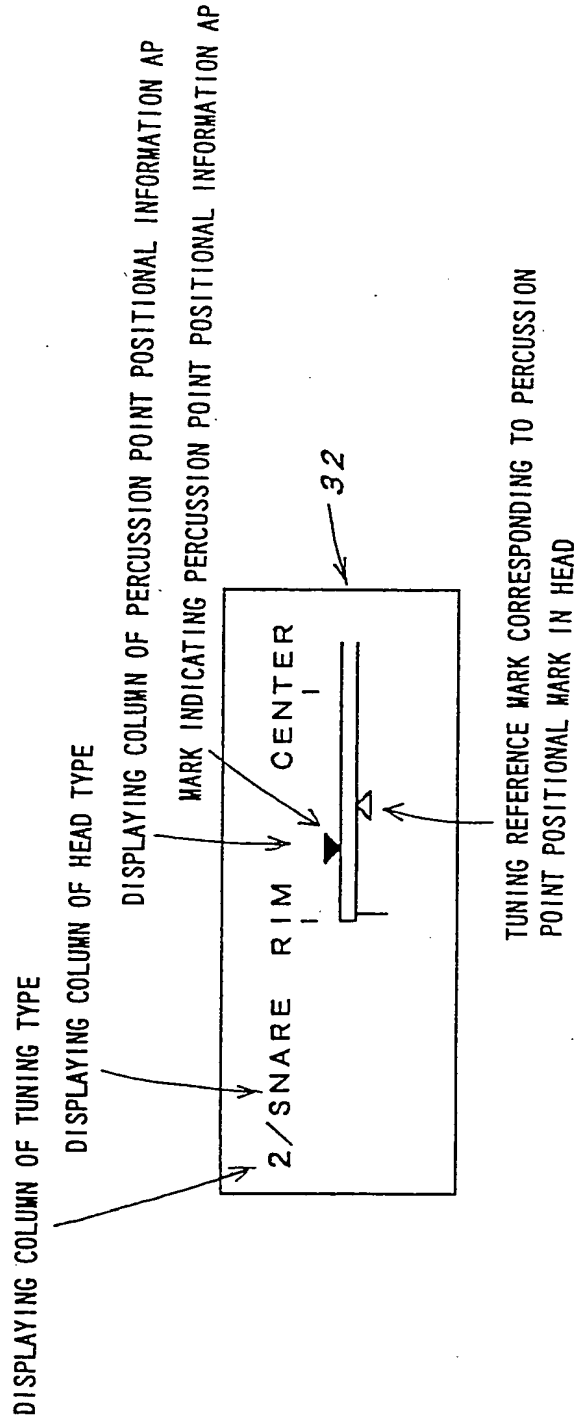


FIG. 18 (b)

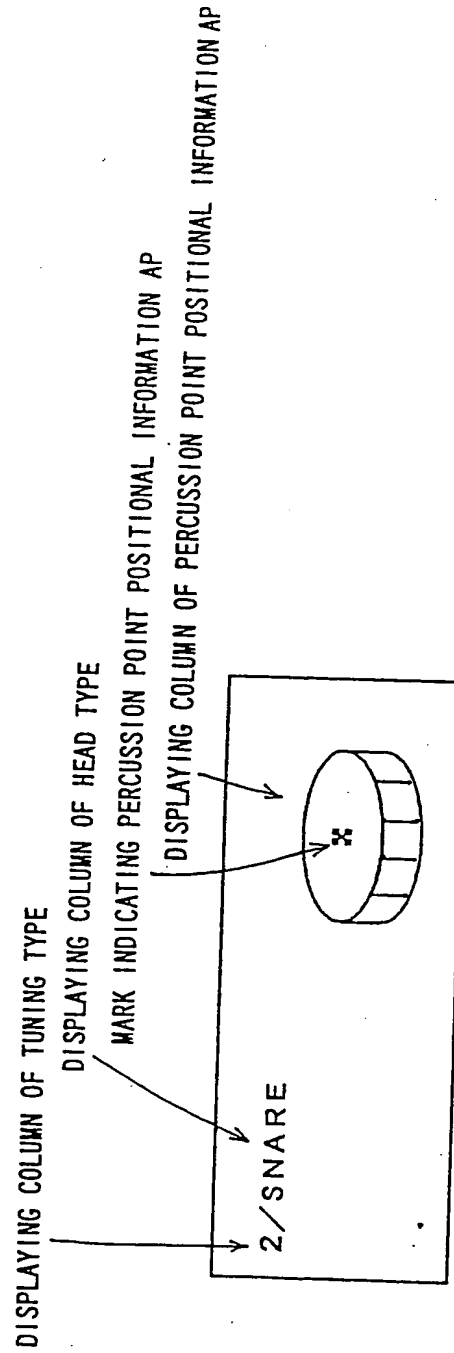


FIG. 18 (c)

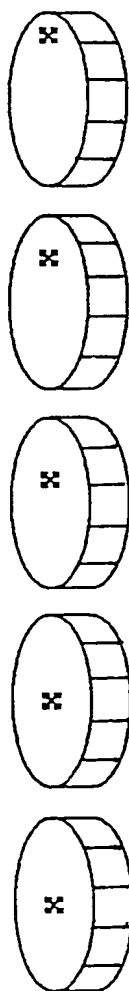


FIG. 19

NORMAL PERFORMANCE PROCESSING ROUTINE

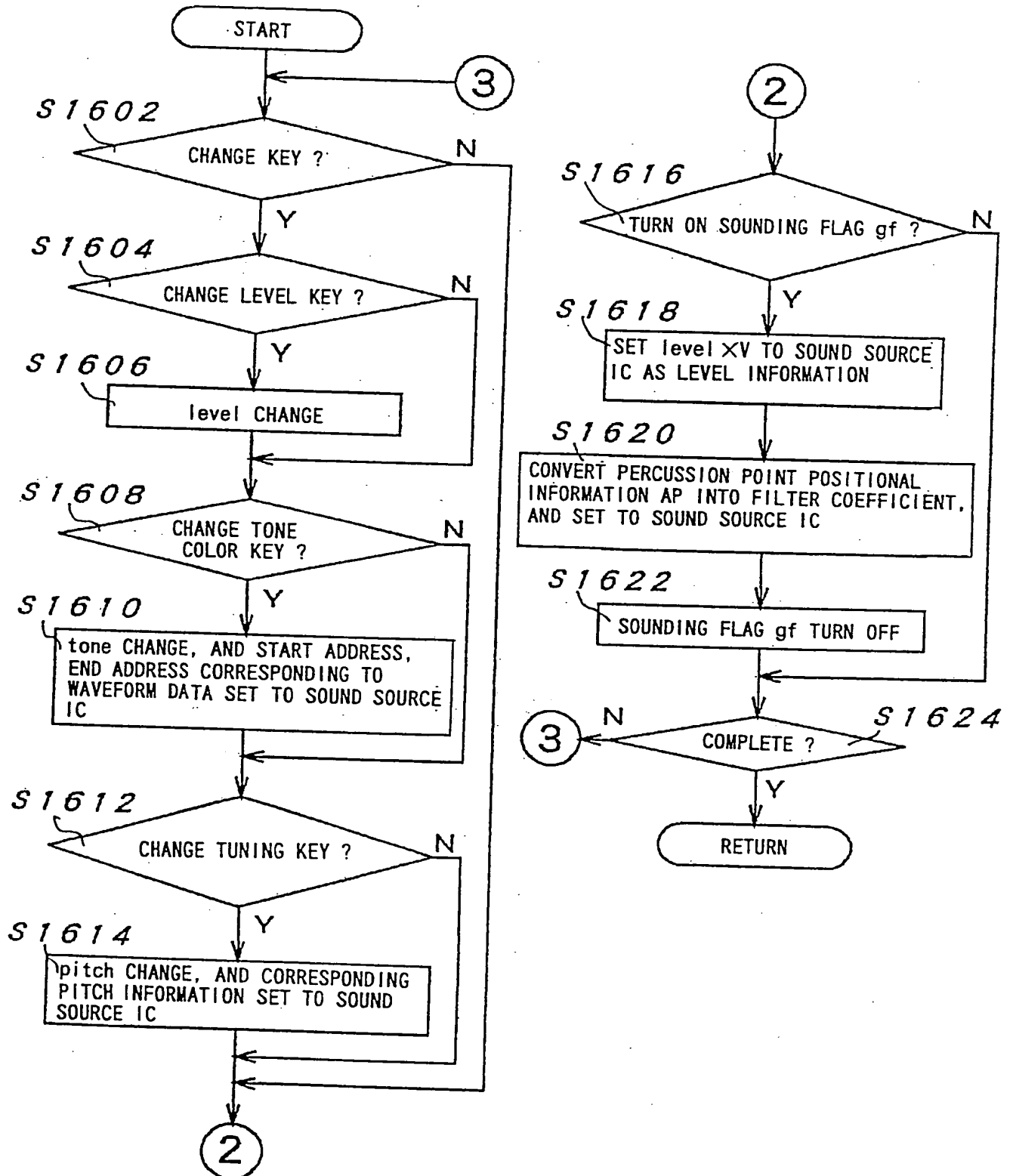


FIG. 20

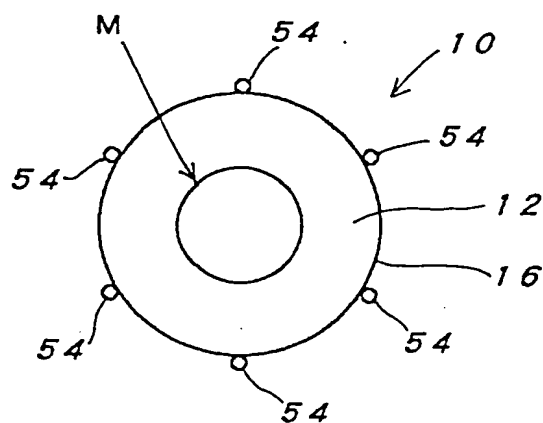


FIG. 21

OPERATIONAL PROCEDURE FOR TUNING OPERATION IN HEAD

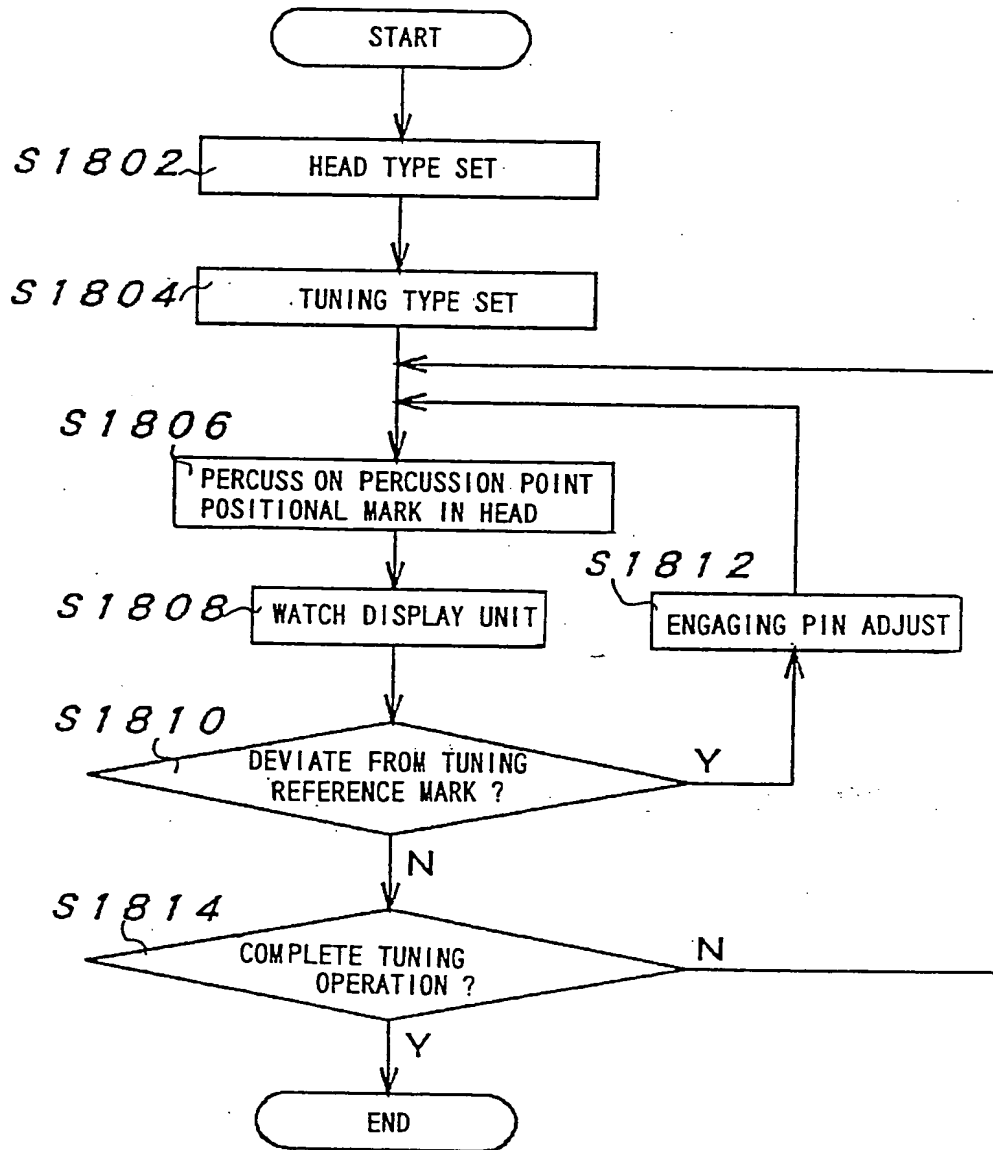


FIG. 22

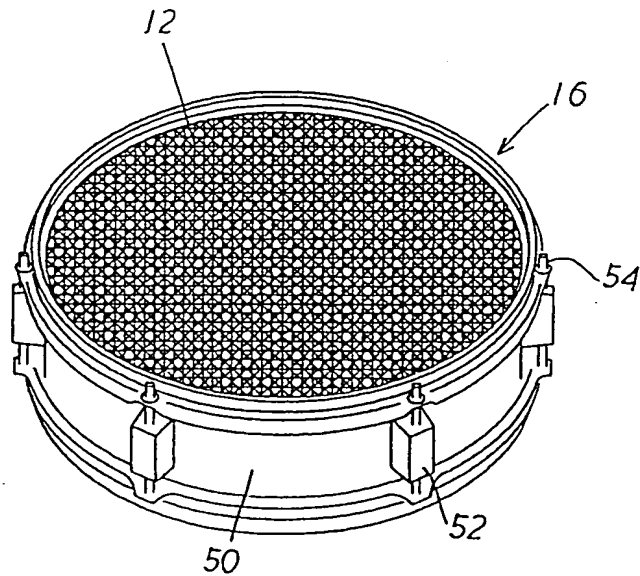


FIG. 23

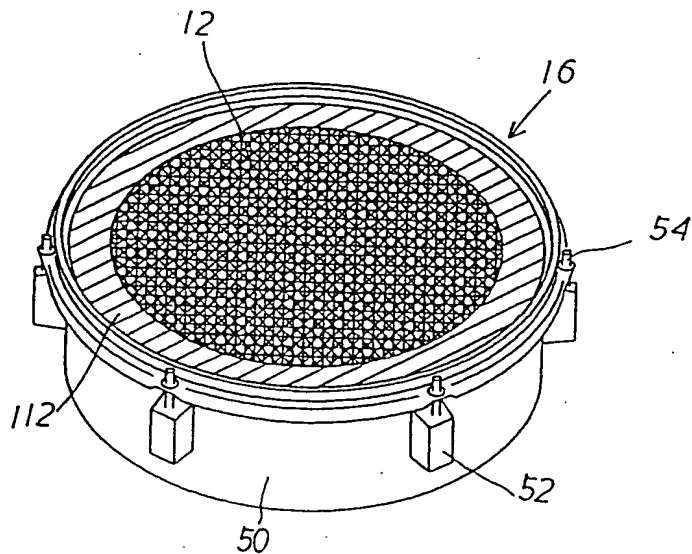


FIG. 24 (a)

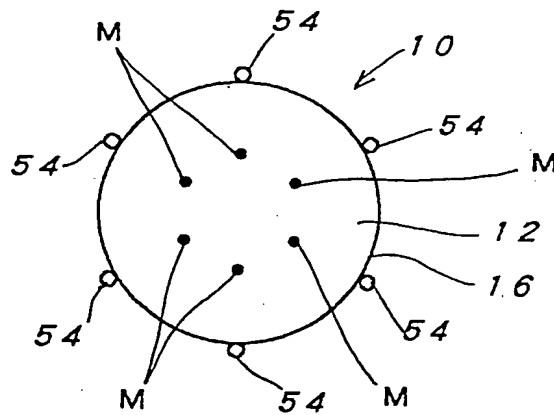


FIG. 24 (b)

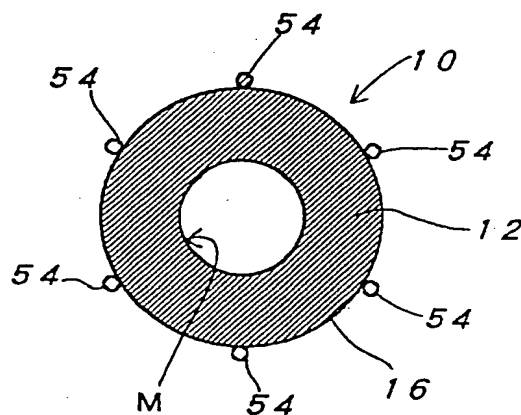


FIG. 25

